

# E:fact<sup>®</sup> Technical Service Data

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## SAMSUNG

### Models

TXJ2554  
TXJ2566  
TXJ2567  
TXJ2567/CCX

## SCHEMATIC NOTES

# For SAFETY use only equivalent replacement part, see parts list.

✕ Circuitry not used in some versions.

--- Circuitry used in some versions.

⊥ Ground

⏏ Chassis ground

∇ Common tie point

△ Taken from common tie point

3 Schematic voltage source tie point.

A— Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless noted otherwise.

Waveforms taken with triggered scope and keyed rainbow generator. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.

Supply voltages maintained as seen at input.

Voltages measured with digital meter and a 1000μV RF signal, with colorbar pattern, applied to antenna terminal.

Controls adjusted for normal operation.

Capacitors are 50 volts or less, 5% or greater unless noted.

Electrolytic capacitors are 50 volts or less,

20% or greater unless noted.

Resistors are 1/2W or less, 5% or greater unless noted.

Value in ( ) used in some versions.

Measurements with switching as shown, unless noted.

Rated voltage shown on zener diodes.

# PARTS LIST

## COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
L102	1 $\mu$ H	2701-000142
L103	.56 $\mu$ H	2701-000207
L104	10 $\mu$ H	2701-000114
L201	15 $\mu$ H	2701-000127
L202, 03	Ferrite Bead	3301-000287
L204, 05, 06	10 $\mu$ H	2701-000114
L207	-	-
L237	10 $\mu$ H	2701-000114
# <b>L400</b>	Yoke Horiz 1.33mH Vert 16mH	AA27-50004C
# <b>L401</b>	Horizontal Linearity	AA27-30003G
L405	1 $\mu$ H	2701-000142
L406	Ferrite Bead	2901-000297
L602	Ferrite Bead	3301-000287
L710	10 $\mu$ H	2701-000114
L800	Degaussing	AA27-20001W
L801	Ferrite Bead	-
L802	Line Filter	AA29-30002F
L807	Ferrite Bead	3301-000287
L808, 09	Ferrite Bead	3301-001223
L810	100 $\mu$ H	AA27-10002Y
L811, 12, 14	Ferrite Bead	2901-000297
L815	Ferrite Bead	3301-000287
L816	100 $\mu$ H	AA27-10002Y
L901, 02	10 $\mu$ H	2701-000114
L903	Ferrite Bead	3301-000287
# <b>LK803</b>	Line Filter	AA29-30002F
LUD01	1.5 $\mu$ H	2701-000106
R922, 23	10 $\mu$ H	2701-000114
T201	VIF	AA26-10005E
# <b>T401</b>	Horizontal Drive	AA26-50001R
# <b>T444</b> (1)	Horizontal Output	AA26-30005Q
# <b>T801</b>	Switching	AA26-20007Z

# For SAFETY use only equivalent replacement part.

(1) Focus and screen controls are part of T444.

# PARTS LIST continued

## MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
# <b>F801</b>	Fuse	3601-001012	4Amp, 250VAC, Slow Blow
JA701	Jack	3722-001103	Assembly
JB01	Jack	3722-000500	Assembly
JE60 (2)(4)	Jack	3722-000143	Headphone
# <b>P800</b>	Line Cord	AA39-10007Y	AC, Polarized
RL801	Relay	3501-001040	Degaussing
RM901	Receiver	AA59-60001U	Remote, ORC-50VF
SF101	Filter	2904-000287	SAW
SF102	Filter	2904-000289	SAW
# <b>SP1, 2</b> (2)(4)(5)	Speaker	3001-001038	2 1/4" X 5", 16 Ohms, 6W
# <b>SP1, 2</b> (3)	Speaker	3001-000003	1 5/8" X 4 5/16", 16 Ohms, 3W
SW901	Switch	3404-000244	Channel Up
SW902	Switch	3404-000244	Channel Down
SW903	Switch	3404-000244	Volume Up
SW904	Switch	3404-000244	Volume Down
SW905	Switch	3404-000244	Menu
SWN01	Switch	3404-001004	Power
# <b>V999</b>	CRT	L1000-0027	A63AFW32X
X202	Crystal	2801-003298	3.58MHz
X901	Crystal	2801-003224	32.768kHz
Z201	Trap	2903-001022	4.5MHz
Z601	Filter	2903-000135	4.5MHz, Bandpass
	Fuse Holder	3602-000114	For F801 (2 Used)
	Magnet	AA27-00002A	Purity/Convergence
	PC Board (2)(4)(5)	LA97-90003N	AV
	PC Board (3)	LA95--90026X	AV
	PC Board (2)(5)	AA97-10062C	Main
	PC Board (3)	AA97-10062A	Main
	PC Board (4)	AA97-10062B	Main
#	Socket	3704-000114	CRT
	Transmitter (2)	AA59-10112D	Remote
	Transmitter (3)	AA59-10113B	Remote
	Transmitter (4)(5)	AA59-10112J	Remote
# <b>TU01</b> (1)	Tuner	AA40-10006U	UHF/VHF
	Wedge	AA63-60028A	Yoke Positioning (3 Used)

**# For SAFETY use only equivalent replacement part.**

- (1) Contact TNI Electronics for replacement; order by part number on tuner.
- (2) Used in model TXJ2567.
- (3) Used in model TXJ2554.
- (4) Used in model TXJ2566.
- (5) Used in model TXJ2567/CCX.

## PARTS LIST continued

### CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
# <b>DZ801</b>	Varistor	1405-001036	-
DZ802	Varistor	1405-001036	-
NT801	4.2 Cold NTC	1404-001045	-
# <b>PUD01</b>	7.9 Cold PTC	1404-000208	-
R237	39K 2% 1/8W	2001-001093	EW339
R408	1000 2% 1/2W	2004-001390	HW210
# <b>R409, 10</b>	.18 10% 2W Fusible	2008-001011	2WD18
R411	91K 1% 1/2W	2004-001408	HW391
# <b>R412</b>	91K 1% 1/2W	2004-001408	HW391
# <b>R418</b>	.68 5% 2W Fusible	2008-000254	-
R419	.47 10% 1/2W Fusible	2008-000252	-
R523	47 5% 2W Fusible	2008-000299	F2W047
R525	2.4 5% 2W Fusible	2008-000290	F2W2D4
R526	.68 5% 2W Fusible	2008-000254	-
R603	100K 1% 1/8W	2004-000195	-
R801	133K 1% 1/2W	-	-
# <b>R805</b>	4.7M 10% 1/2W	2002-001013	HW547
R808	127K 1% 1/2W	2004-001889	-
R828	2490 1% 1/2W	2004-001983	-
R830, 31	.18 10% 2W Fusible	2008-001011	-
R836	1 5% 2W Fusible	2008-000266	F2W1D0
R861, 62	10 5% 2W Fusible	2008-001033	F2W010
R964	1000 2% 1/2W	2004-001390	HW210
# <b>RU01</b>	1.8M 10% 1/2W	2002-001010	HW518
RUD13	62K 1% 1/8W	2004-001165	EW362
# <b>RX01</b>	68K 5% 1/8W	2001-000010	EW368
# <b>RX02, 03</b>	22K 5% 1/8W	2001-000522	EW322
# <b>RX04</b>	43K 5% 1/8W	2001-000766	EW343
# <b>RX05</b>	11K 5% 1/8W	2001-000313	EW311

# For SAFETY use only equivalent replacement part.

## PARTS LIST continued

### CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
C223	17pF 5% 50V NPO	2201-000258
C243	33pF 5% 50V NPO	2201-000483
# C402	.0039 5% 1.6kV	2301-001219
C414	680pF 10% 2kV	2201-000984
# C419	.0074 3% 1.6kV	2306-000254
C518	.01 +80% -20% 3kV	2201-002063
C628, 32	10μF 20% 50V NP	2401-000471
# C801	470μF 20% 250V	2401-001387
C802, 03	.0022 20% 250VAC	2201-000332
C805	560pF 10% 2kV	2201-000991
# C821	.0047 20% 400VAC	2201-000990
C822	.001 20% 400VAC	2201-000963
# C823	.0047 20% 400VAC	2201-000990
C908	47pF 5% 50V NPO	2201-000573
C909	10pF ±.25pF 50V NPO	2201-000193
# CB01	.22 20% 275VAC	-
	.22 20% 250VAC	2306-000318
CD11	4.7μF 20% 50V NP	2401-001989
CU33	4.7μF 20% 50V NP	2401-001989
CUD06	4.7μF 20% 50V NP	2401-001989
CUD20	4.7μF 20% 50V NP	2401-001989
CUD23	4.7μF 20% 50V NP	2401-001989
CUD28	4.7μF 20% 50V NP	2401-001989
# CX01	10μF 20% 50V	2401-000480

# For SAFETY use only equivalent replacement part.

# PARTS LIST continued

## CABINET PARTS

Item	Mfr. Part No.
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### Model TXJ2554

Badge (SAMSUNG)	AA64-70117B
Button Assembly	AA64-10732A
Cabinet Back	AA64-31138A
Cabinet Back Assembly	AA90-70111A
Cabinet Front	AA64-31137A
Cabinet Front Assembly	AA91-10341E
IR Window	AA64-40472A
Power Button	AA64-10733A

### Model TXJ2566

Badge (SAMSUNG)	AA64-70117B
Button Assembly	AA64-10803A
Cabinet Back	AA64-31348A
Cabinet Back Assembly	AA92-10232C
Cabinet Front	AA64-31346A
Cabinet Front Assembly	AA92-30241B
IR Window	AA64-40524A
Power Button	AA64-10804A

### Model TXJ2567

Badge (SAMSUNG)	AA64-70117B
Button Assembly	AA64-10803A
Cabinet Back	AA64-31348A
Cabinet Back Assembly	AA92-10232A
Cabinet Front	AA64-31346A
Cabinet Front Assembly	AA92-30241A
IR Window	AA64-40524A
Power Button	AA64-10804A

### Model TXJ2567/CCX

Badge (SAMSUNG)	AA64-70117B
Button Assembly	AA64-10803A
Cabinet Back	AA64-31348A
Cabinet Back Assembly	AA92-10232A
Cabinet Front	AA64-31346A
Cabinet Front Assembly	AA92-30241B
IR Window	AA64-40524A
Power Button	AA64-10804A

## SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
D201	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
D202	1N4004	0402-000132	ECG116	NTE116
D204 Thru D208	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
D210	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
D301	ERB43-04SV1	0402-001105	-	-
D401	1R5GU41	0402-000493	ECG576	NTE576
D402, 03	1N4004	0402-000132	ECG116	NTE116
D404	RU20A	0402-000540	-	-
D405	ERB43-04SV1	0402-001105	-	-
D503	1N4004	0402-000132	ECG116	NTE116
D511, 12, 13	ERB43-04SV1	0402-001105	-	-
D601	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
# <b>D801</b>	RBV406LFB	0402-001082	-	-
D803	1R5GU41	0402-000493	ECG576	NTE576
D804	ERB43-04SV1	0402-001105	-	-
D810	1R5GU41	0402-000493	ECG576	NTE576
D812	FMG-G26S	-	ECG598	NTE598
D814	ERB12-06	0402-000213	ECG116	NTE125
D825	1R5GU41	0402-000493	ECG576	NTE576
D903, 08, 10	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
# <b>D951</b>	1N4004	0402-000132	ECG116	NTE116
D962	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
DU01, 02, 03	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
# <b>DX01</b>	ERB43-04SV1	0402-001105	-	-
DZ101	TZP33A	0403-000700	-	-
DZ210, 11, 17, 31	MTZ9.1B	0403-000563	ECG5018A	NTE5018A
DZ250	MTZ3.0B	0403-000662	-	-
DZ302, 03, 04	MTZ22A	0403-000660	-	-
DZ305	MTZ39B	0403-000494	-	-
DZ306	TZP33A	0403-000700	-	-
DZ401	MTZ8.2B	0403-000300	-	-
DZ402	MTZ5.1B	0403-000355	ECG5010T1	NTE5010A
DZ505	MTZ9.1B	0403-000563	ECG5018A	NTE5018A
DZ601	MTZ9.1B	0403-000563	ECG5018A	NTE5018A
DZ612, 13	MTZ15C	0403-000656	-	-
DZ621, 22	MTZ15C	0403-000656	-	-
DZ707, 08	MTZ9.1B	0403-000563	ECG5018A	NTE5018A
DZ803	MTZ8.2B	0403-000300	-	-
DZ804, 05	MTZ5.6B	0403-000296	ECG5011A	NTE5011A
DZ806	MTZ7.5B	0403-000562	ECG5015A	NTE5015A
DZ807	MTZ6.2B	0403-000297	ECG5013A	NTE5013A
DZ808	MTZ5.6B	0403-000296	ECG5011A	NTE5011A
DZ809	-	-	-	-
DZ810	1N4148	-	ECG519	NTE519
	1N4148TAPG	0401-000005	ECG519	NTE519
DZ811	-	-	-	-
DZ864	MTZ5.6B	0403-000296	ECG5011A	NTE5011A
DZ901	UZ5.1BSB	0403-000355	-	-
DZ902	MTZ7.5B	0403-000562	ECG5015A	NTE5015A
DZ905 Thru DZ908	MTZ6.2B	0403-000297	ECG5013A	NTE5013A
DZ910	MTZ6.2B	0403-000297	ECG5013A	NTE5013A
# <b>DZX01</b>	MTZ6.8A	0403-000667	-	-
IC201	TDA8373A	1204-001174	-	-
IC202	LA7510	1204-000506	ECG7067	NTE7067
IC301	LA7845	1204-000517	-	-

# For SAFETY use only equivalent replacement part.

## SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
IC501	TDA46108Q	1201-001330	-	-
IC603	TDA7266	1201-001308	-	-
IC701	TDA7449	1204-001455	-	-
# IC801	KA3S1265R	1203-001482	-	-
IC802	KA7630	1203-000644	-	-
# IC851	PC123Y	0604-001038	-	-
IC852	KA431LZ	1203-001217	ECG385	-
IC853	KA78R09	1203-001225	-	-
IC901	SZM-368ET2	AA13-00017A	-	-
IC902	KS24C081	1103-001106	-	-
ICD01	CXA2104S	1209-001116	-	-
ICP01	TDA4665	1209-000214	-	-
LD901	DL-G5RGA	AA96-30001B	-	-
Q101	KTC3197	0501-000436	ECG107	NTE107
Q201	2SA539	-	ECG290A	NTE290A
Q201	KSC815-Y	0501-000389	ECG123AP	NTE123AP
Q204	KSA539-Y	0501-000283	ECG159	NTE159
# Q401	2SD1880	0502-000209	ECG2353	NTE2353
Q403	KSC2331-Y	0501-000369	ECG24	NTE24
Q601, 04	KSC815-Y	0501-000389	ECG123AP	NTE123AP
Q801	SPF9640	-	-	-
Q901	KSR1010	0504-000123	-	-
Q902	KSC815-Y	0501-000389	ECG123AP	NTE123AP
Q903	2SC2330	-	ECG399	NTE399
Q951	KSC2331-Y	0501-000369	ECG24	NTE24
QP01, 02	KSC815-Y	0501-000389	ECG123AP	NTE123AP
QU03	KSR1010	0504-000123	-	-
QU05	KSA539-Y	0501-000283	ECG159	NTE159
# QX01	KSA539-Y	0501-000283	ECG159	NTE159

# For SAFETY use only equivalent replacement part.

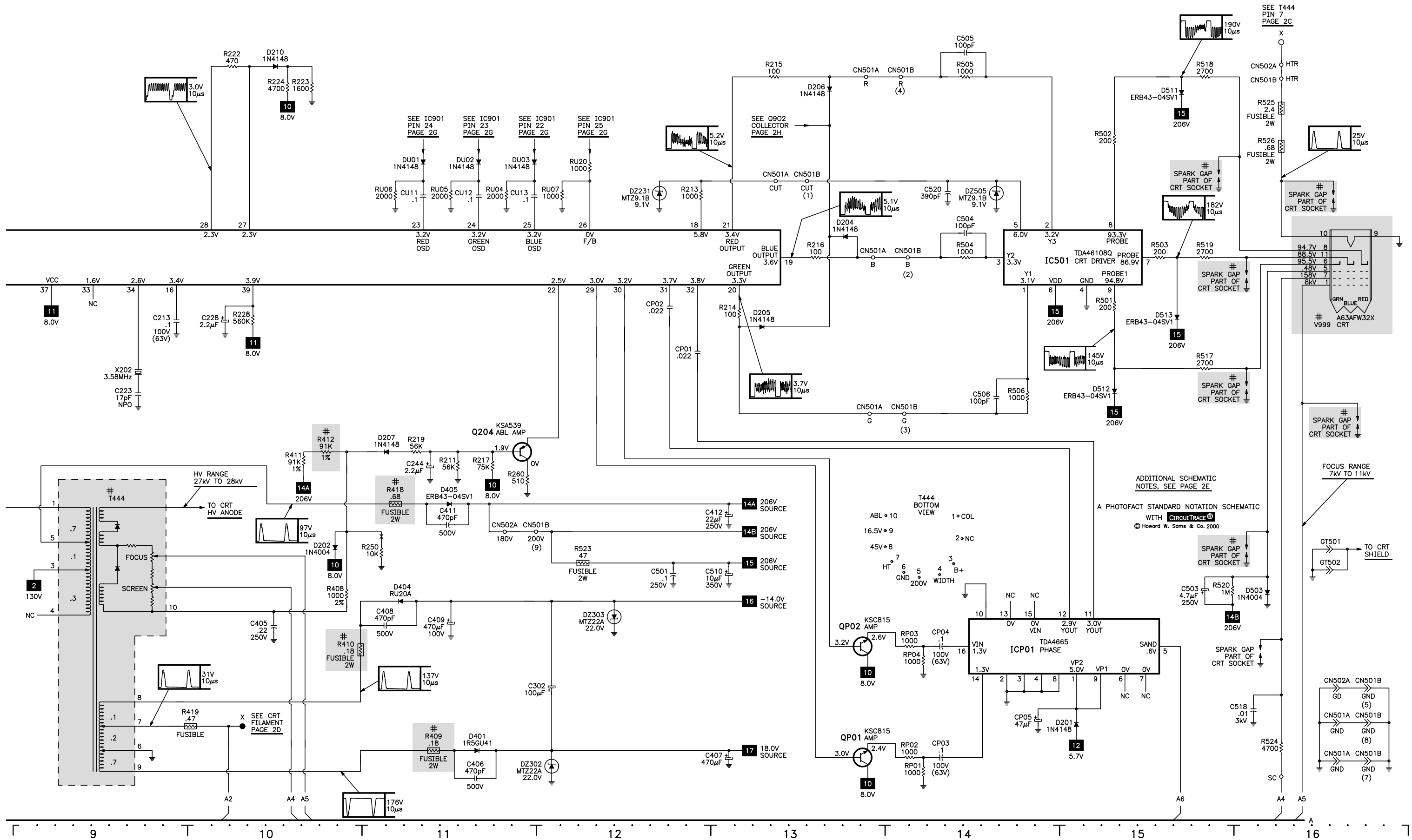




C

# TELEVISION SCHEMATIC continued

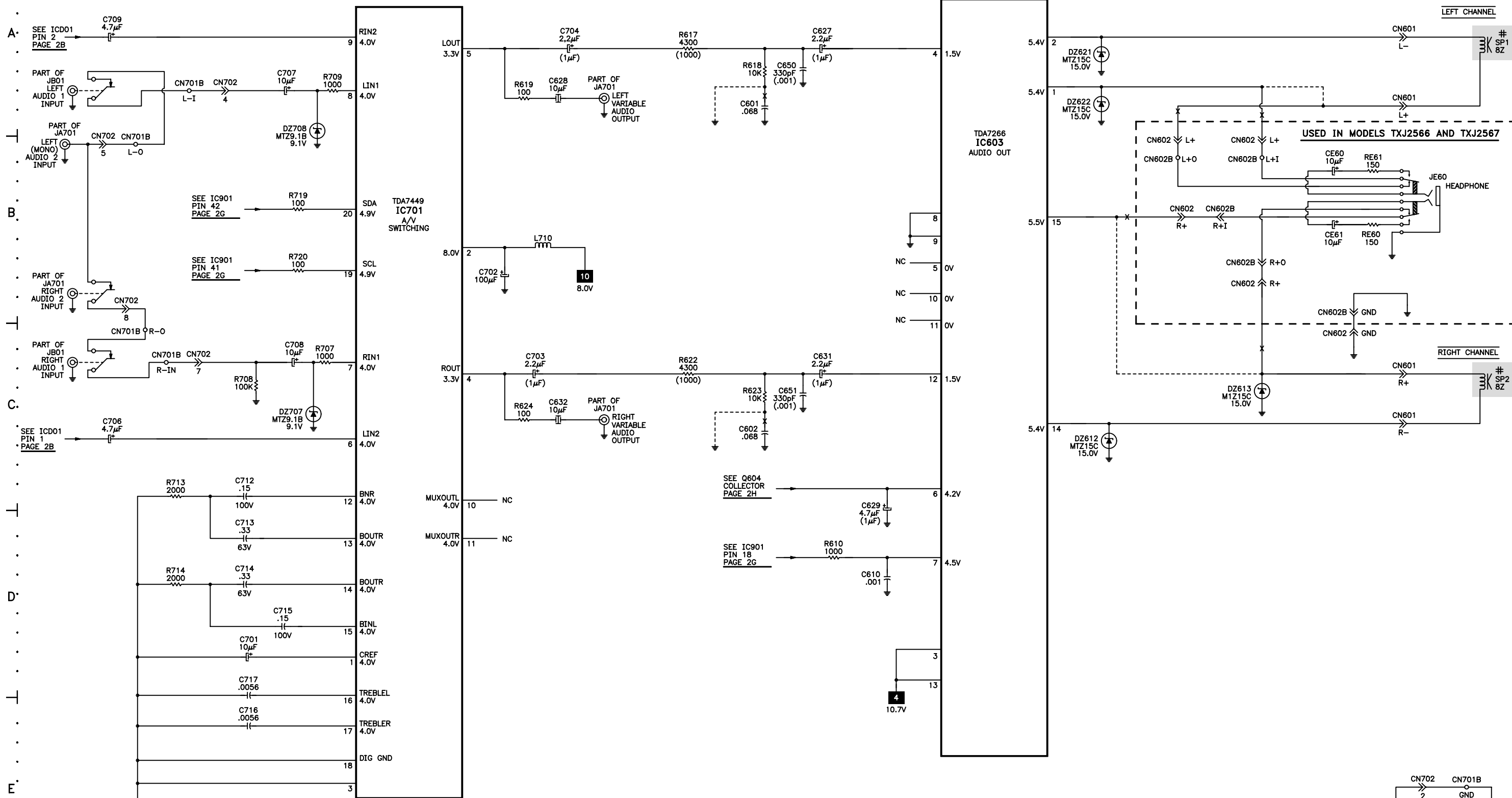
D



# AUDIO SCHEMATIC

A

B

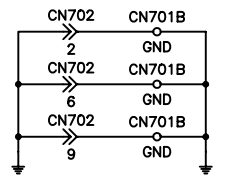


A.  
B.  
C.  
D.  
E.

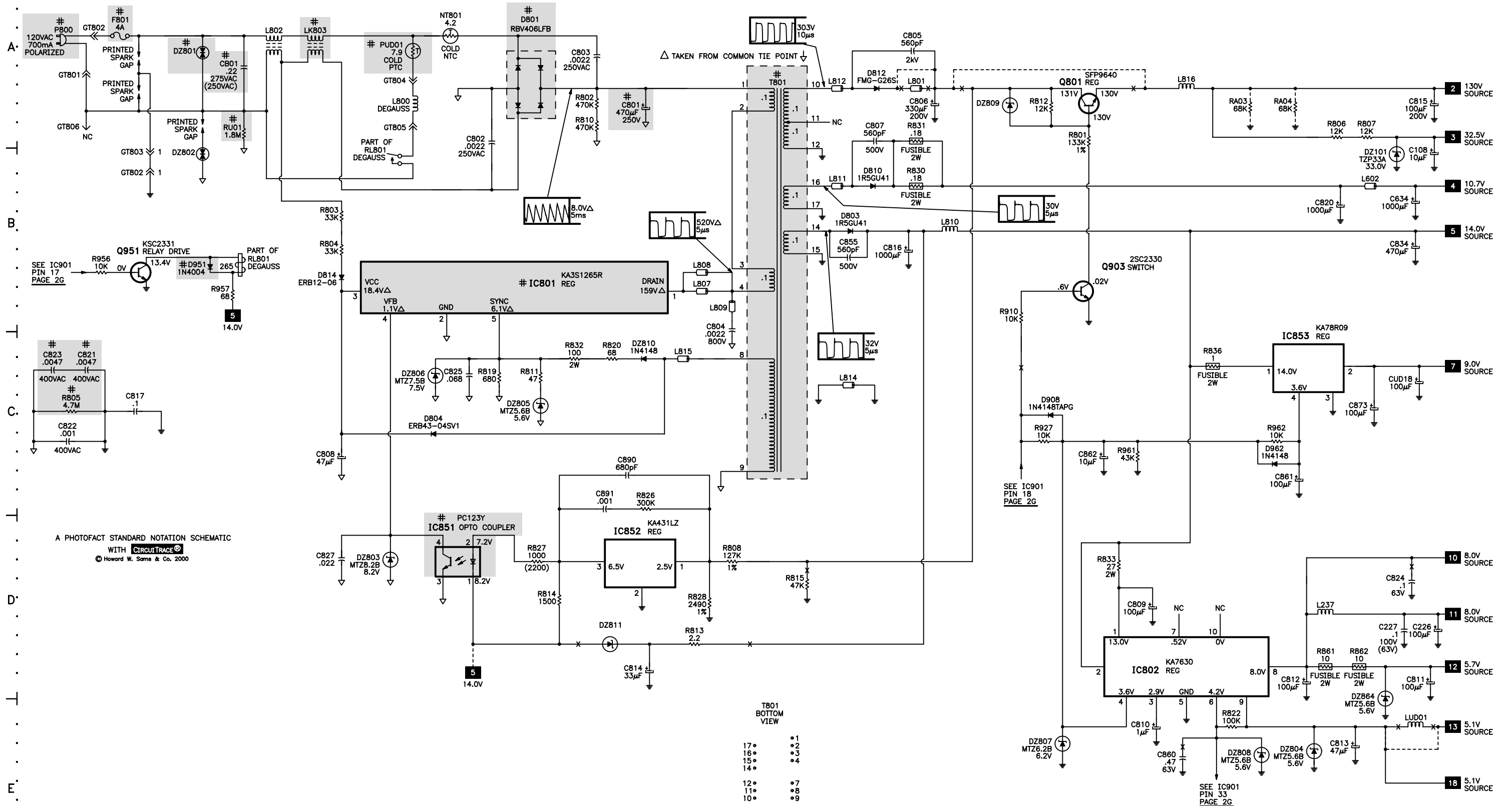
ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE

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# POWER SUPPLY SCHEMATIC



A PHOTOFAC STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITRACE**  
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T801  
BOTTOM  
VIEW

17	•1
16	•3
15	•4
14	•4
12	•7
11	•8
10	•9



# PLACEMENT CHART

